

RHF - 1PG Application For Radioactive Material License — Portable Gauge

Instructions — Complete all items in this application for a new license or the renewal of an existing license. Use supplemental sheets where necessary. Item 21 must be completed on all applications. Mail original copy to: Washington State Department of Health in accordance with the directions contained in the application cover letter. Upon approval of this application, the applicant will receive a State of Washington Radioactive Material License issued in accordance with the general requirements contained in Washington State Department of Health, Radiation Protection Division, Radiation Control Regulations, and the Washington Nuclear Energy and Radiation Control Act, Chapter 70.98 RCW.

NAME AND MAILING ADDRESS OF APPLICANT (Institution, Firm, individual owner, etc.) INCLUDE ZIP	CODE		ESS(ES) AT WHICH I SED (if different than 2				BE	
2. PERSON TO CONTACT REGARDING THIS APPLICA	TION	1c. Will radioactive	material be used at te	emporary job lo		? 🗖	Yes	□ No
3. THIS IS AN APPLICATION FOR: (Check appropriate if A. RENEWAL OF	em) FLICENSE NO. WN -							
INDIVIDUAL USERS (Need not be specifically named must be trained as indicated in 4.b.)		4b. TRAINING AND Approved C	EXPERIENCE (Chec ertificate(s) of Trainin trained in In-House Tr formation attached)	k at least one) g For Each Use	er			
5a. RADIATION SAFETY OFFICER (RSO) (Name of person designated as Radiation Safety Office)	er.)	_	DIATION SAFETY OFI ate Attachment "A" and Duties Attached	•	one)			
(Include Training Certificates)								
6. RADIOACTIVE MATERIAL (Elements and Mass	7. SEALED SOURCE MANUFACT	TURER	8	. MAXIMUM A	CTIVIT	Y OF EACH	SOURCE	
number of each.)	AND MODEL NUMBER							
A	A			A				
В	В		E	3				
C	C			 D				
DEVICE AND USE DESCRIPTION (Make lettering corre	spond to lettering in Items 6, 7, and 8 at	pove.)						
MANUFACTURER OF DEVICE	MODEL NO. OF DEVIO	DE	US	SE (Check all b	oxes th	at apply)		
A		0	surface moisture me density measuremen depth moisture meas	t	in	sc co		n materials
В.		0	surface moisture me density measuremen depth moisture meas	t	in	sc co		n materials
C.		0	moisture measuremen density measuremen depth moisture meas	t	in	soi		materials

11.	MAINTENANCE OF GAUGES (check one)	15.	FACILITIES AND EQUIPMENT
	☐ Applicant will not do any maintenance on gauges, but will return gauges to		☐ Facilities and Storage Diagram Attached (required)
	manufacturer for all maintenance, or contract with approved consultant for gauge maintenance. (Radiation detection instruments not required.)	16.	RADIATION PROTECTION PROGRAM (check one)
	☐ Applicant will do limited maintenance.(Radiation detection instruments not required.)		☐ Sign and date Attachment "B", and return, or
	☐ Applicant will do full maintenance upon gauges. (Radiation detection instruments		☐ Equivalent Procedures Attached
	required.)	17.	EMERGENCY PROCEDURES (check one)
	a. Names of individuals doing gauge maintenance		☐ Complete, sign and date Attachment "C", and return, or
	1		☐ Equivalent Procedures Attached (including copy of shipping paper)
	3	18.	LEAK TEST PROGRAM (check one)
	Training certificates from gauge manufacturer to do maintenance upon specific gauges (model number) attached for named individuals.		Applicant will contract with the following approved outside consultant to do leak tests.
	c. Step by Step gauge maintenance procedures and radiation safety precautions		Name
	attached.		Address
12.	RADIATION DETECTION INSTRUMENTS		
	List Radiation Detection Instruments in this space, if applicable.		☐ Applicant will do leak tests using approved leak test kit, mailing leak tests to kit
	MANUFACTURER MODEL# RANGE		manufacturer for counting.
			Manufacturer name, address
			Name
13.	CALIBRATION OF SURVEY INSTRUMENTS (Mandatory when requesting full maintenance programs) (check one)		Address
	☐ No radiation detection instruments possessed. N/A		
	☐ Calibration will be done annually and after each repair.		Will do own leak test including counting. Detailed procedures attached.
	(check one)	19.	DISPOSAL OR TRANSFER
	☐ Applicant will do own survey instrument calibrations. (attach methods and procedures)		■ Nuclear Gauge(s) containing radioactive sealed sources will be returned to manufacturer; or transferred to an authorized licensee; or transferred to a licensed waste broker for disposal.
	☐ Calibration will be done by an authorized calibration service agency.	20.	LICENSE FEE REQUIRED (See Chapter 246-254 WAC) and annually thereafter.
	Name, Address, and License Number of the initial or current Calibration Service:		a. LICENSE FEE CATEGORY 31 (Portable Gauge)
	Name		b. LICENSE FEE ENCLOSED \$ (see cover letter to determine amount of fee)
	Address		(see cover letter to determine amount of fee)
	License Number		
14.	PERSONNEL MONITORING (check one)		
	☐ Beta-Gamma or Gamma only		
	☐ Gamma-Neutron dosimetry		
	☐ Neutron dosimetry		
	Badges must be exchanged at least quarterly. Supplier must be NVLAP certified.		
	Name and Address of the initial or current Dosimetry Supplier:		
	Name		
	Address		
	ITEM 21 - C (This item must be co		
	PPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APP	LICANT N	AMED IN ITEM 1a CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY
	WASHINGTON STATE DEPARTMENT OF HEALTH, DIVISION OF RADIATION PROTECTIO LEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWL		
	(TYPE OR PRINT NAME OF CERTIFYING OFFICIAL)		(SIGNATURE)

DATE _____

(TITLE OF CERTIFYING OFFICIAL)

ATTACHMENT A

DUTIES OF THE RADIATION SAFETY OFFICER FOR PORTABLE GAUGE LICENSE

- 1. To assure that radioactive materials possessed under the license conform to the materials listed on the license.
- 2. To assure that use of the devices, particularly in the field, is only by individuals specifically authorized by the license.
- 3. To assure that all users wear personnel monitoring equipment, such as film badges or thermoluminescent dosimeters (TLD's), when required.
- 4. To review all personnel monitoring reports, to alert the radiation worker in the event of a high or unusual exposure, to notify Division of Radiation Protection personnel as required of the high or unusual exposure, and to investigate all such unusual exposures and take any necessary corrective action to prevent other such high exposures.
- 5. To assure that gauges are properly secured against unauthorized removal at all times when they are not in use.
- 6. To serve as a point of contact and give assistance in case of emergency (gauge damage in the field, fire, theft, etc.) to assure that proper authorities, (for example local police), and Division of Radiation Protection personnel are notified promptly in case of accident or damage to gauges.
- 7. To assure that the terms and conditions of the license, such as periodic leak tests, are met and that the required records, such as personnel exposure records, leak test records, etc., are periodically reviewed for compliance with department regulations, requirements, and license conditions.

APPROVED BY		DATE
7	(Applicant)	27.1.2

ATTACHMENT B

RADIATION SAFETY PROGRAM FOR PORTABLE GAUGE LICENSE

The following radiation protection program will be followed at all times. A copy of these procedures shall be maintained in the licensee's radioactive materials license file, and another copy in the shipping case of each nuclear gauge at all times.

- 1. Only certified operators shall use, or supervise the use of, nuclear gauges.
- All unauthorized persons shall be kept out of the operating area. A minimum suggested distance is five meters or 15 feet.
- 3. The licensee shall not open a source containing radioactive material.
- 4. No one shall be permitted to touch or directly handle the unshielded source.
- 5. The operator shall never unnecessarily be exposed to the unshielded source.
- 6. The nuclear gauge source shall be locked in the safe, off, closed, or stored position when not in use.
- 7. Security of the nuclear gauge shall be maintained at all times. The gauge shall be returned to the carrying case when not in use. Nuclear gauges shall never be left unattended, except when in storage in the licensed storage facility in the designated locked storage area or in a locked vehicle out of sight so as to minimize the attractive nuisance value.
- Only licensed operators shall have or carry keys to the nuclear gauges or to their locked storage areas. Key control shall be maintained by the Radiation Safety Officer.
- 9. If the operator detects any malfunction in the shutter or other part of the nuclear gauge, the operator shall immediately notify the Radiation Safety Officer.
- 10. The licensed operators shall keep the Radiation Safety Officer informed of the location of the radioactive sources at all times. A utilization log shall be maintained at the secondary and/or primary storage location (not carried with the gauge into the field) including, but not limited to, the following information: device manufacturer, model number, serial number, user, date(s) of use, and location(s) of use.
- 11. When required, licensed operators and other persons working in the proximity of the nuclear gauges when they are being transported or used shall wear appropriate personnel dosimeters, such as film badges or thermoluminescent dosimeters (TLD's). Each worker shall be assigned his/her own dosimeter. On no occasion shall a person wear a dosimeter assigned to another individual.

(Continued)

ATTACHMENT B (Continued)

- 12. Personnel dosimeters shall be kept in a cool, dry, low radiation background when not in use.
- 13. The personnel dosimeter shall be processed immediately if there is any indication of a high or unusual exposure, or if the dosimeter is damaged in any way. The Radiation Safety Officer shall investigate all high or unusual exposures, and take corrective action if necessary to prevent other such high exposures. Notification procedures shall be in accordance with WAC 246-221-250 and WAC 246-221-260.
- 14. Exposure records shall be kept in a manner which includes names, dates of birth, and social security numbers for all dosimetry users. Each entry shall be for a period of time not to exceed one calendar quarter. Department form RHF-5 or equivalent may be used.
- 15. The company shall maintain on file indefinitely the training certificates and exposure records of employees and past employees, and supply such employees with exposure data (on request) at termination of employment or hiring by another radiation work employer.
- 16. The nuclear gauges shall be securely restrained within the transportation vehicle and away from the passenger compartment to prevent theft or loss in an accident and to keep personnel exposure to a minimum. Metal clamps, chains, "bungee" cord, or bars will be used.
- 17. Transportation activities shall be carried out in accordance with the requirements of 10 CFR Part 71 and Department of Transportation regulations (49 CFR Parts 100 to 199).
- 18. Radiation labels or placards (if any) shall be removed from vehicles when not actually transporting the nuclear gauges to avoid confusion should an accident occur to the vehicle when it does not contain the gauges.
- 19. The Radiation Safety Officer shall maintain a current copy of the following along with the nuclear gauge license: State of Washington Department of Health "Rules and Regulations for Radiation Protection." An updated copy of Attachment C shall also be carried with each nuclear gauge.
- 20. The storage cabinet or door to the storage area shall be posted with a CAUTION RADIOACTIVE MATERIALS sign. Properly completed Form RHF-3, "Notice to Employees," shall be posted in a conspicuous place wherever individuals work in or frequent any portion of a restricted area. Licensed operators shall be responsible for posting the above at all field storage locations.
- 21. Leak testing of the sealed sources is required at six month intervals, or at the manufacturer's specified interval, and shall be performed in the manner designated in the application form. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the department.

APPROVED BY		DATE	
-	(Applicant)		

ATTACHMENT C

EMERGENCY PROCEDURES FOR PORTABLE GAUGE LICENSE

If an emergency occurs, such as loss, theft, fire, explosion, or vehicle accident in which the nuclear gauge may be damaged or lost, the operator shall follow these procedures:

1. SECURE THE AREA AROUND THE ACCIDENT. KEEP UNAUTHORIZED PERSONS AWAY. ALERT PEOPLE IN VICINITY

OF THE PRESENCE OF RADIOACTIVITY AND A POSSIBLE HAZARD.

2.	DO	NOT LEAVE THE SITE. Send a helper	r on looker to notify the following:
	a.	Radiation Safety Officer, whose phone	umbers are:
		Work	Home
	b.	Local Police	
	C.	Local Fire Department (where applical	·)
3.	whi		ediately notify State of Washington Radiation Emergency Response (206) 682-5327, all authorities as indicated. Identify the call as a RADIATION EMERGENCY and give
	a.	Yourname	
	b.	Agency or firm	
	C.	Location of incident	
	d.	The telephone number where you can	ereached
Up	on co	ntact with a State Radiation Emergency	esponse Officer, report the following information:
	a.	What happened	
	b.	Date and time emergency began	
	C.	Are there any injured people	
	d.	Actions taken	
	e.	Emergency agencies present on scen	ornotified
	f.	Present status	
4.	and op e	l explain to the emergency personnel of	ers of the radiation hazard possibly existing, and should help them keep the area secure radioactive device, and the extent of the possible hazard. In no case should the sarrive, unless, of course, the operator is seriously injured or incapacitated, and must nnel for necessary medical treatment.
APP	ROVE	O BY	DATE
		(Applie	rt)

ATTACHMENT C

SHIPPING PAPER

OWNER OF DEVICE:		
ADDRESS:		
TELEPHONE:		
24 HOUR EMERGENCY	TELEPHONE: 206 NUCLEAR (206 682-5327)	
DEVICEMANUFACTURER:		
DEVICEMODEL:		
ISOTOPE(S):		
ACTIVITY(S):	MBq. /	MBq.
(mCi) / (mCi)
	LABELING	
Shipping Name: RQ - F	Radioactive Material, Special Form, N.O.S.	
Hazard Class: Radioad	ctive Material	
Identification Number:	UN2974	
DOT Label:	Yellow II, or Yellow III (Placards Required)	
Transport Index (TI):		
	bove named materials are properly classified, described, packaged, and marked and are in properly according to the applicable regulations of the U.S. Department of Transportation.	roper
Signed	Title	

This document and an Emergency Procedure **must** be carried in the transport vehicle (within arm's reach of driver) while device is being transported on **any** public roadway by **any** person.

ATTACHMENT D

PORTABLE GAUGE
UTILIZATION/TRANSFERLOG

LICENSEE:	
LICENSENO.:	
GAUGEMFG. & MODEL:	
GAUGE S/N:	

(NOTE: THIS RECORD IS TO BE MAINTAINED AT THE PRIMARY/SECONDARY STORAGE LOCATION(S) AS STATED IN LICENSE. DO NOT CARRY WITH THE GAUGE.)

DATE OUT	TO: USE LOCATION OR TRANSFERRED	INDIVIDUAL	DATE IN	INITIALS